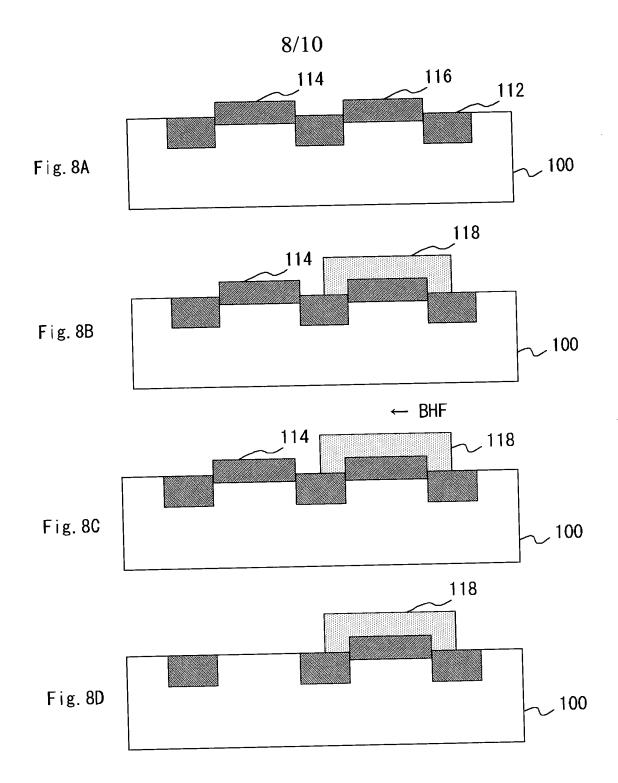
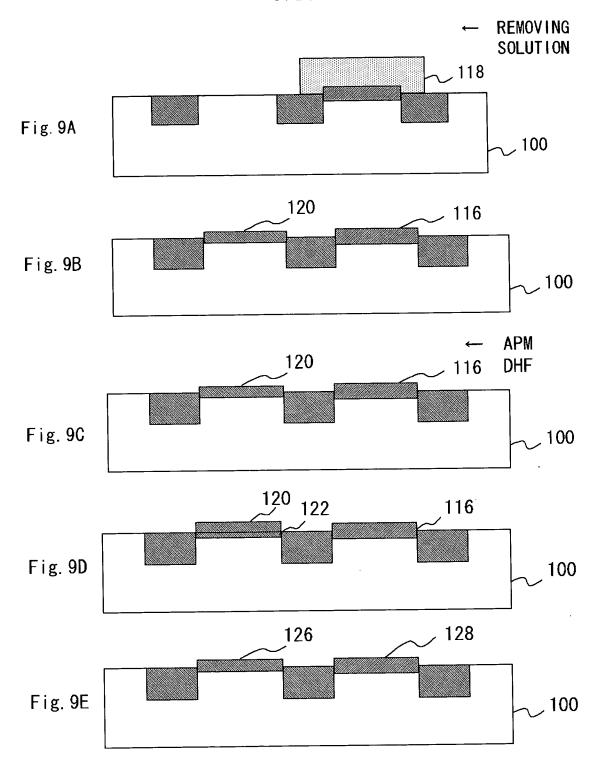


- (1) AFTER REMOVING RESIST LAYER
- (2) AFTER APM/DHF CLEANING
- (3) AFTER THERMAL OXIDIZATION





10/10

SELECTIVITY HfO₂ RATIO **CHEMICAL SOLUTION** TEMP. HfO₂ SiO₂ HfO₂/SiO₂ Fig. 10 PHOSPHORIC ACID (85%) 160°C 0.2nm/min 2nm/min 0.1 SULFURIC ACID(96%) 160℃ 0.1nm/min 0.01 nm/min 10 HYDROFLUORIC ACID(50%) AMBIENT TEMP. 0.1nm/min 1.7mm/min <0.0001

SELECTIVITY **HfAIO**x RATIO CHEMICAL SOLUTION TEMP. HfAIO_x HfAIO_x/SiO₂ SiO₂ PHOSPHORIC ACID (85%) 80°C Fig. 11 >1nm/min <0.1nm/min >10 SULFURIC ACID(96%) 160°C >1nm/min 0.01nm/min >10 DHF(0.5%) AMBIENT TEMP. >5nm/min 4nm/min >1